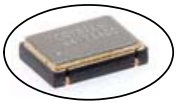
CSO-016T Model
5X7 mm SMD, **5V, HCMOS/TTL**

Lead Free RoHS Compliant

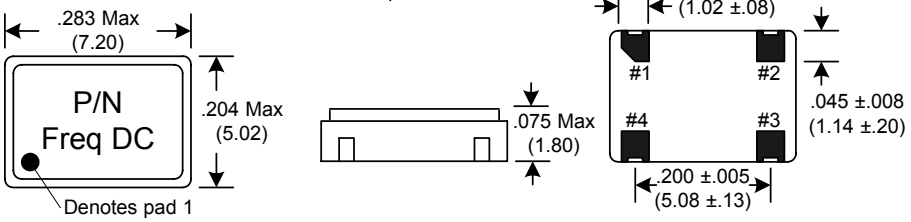
Clock Oscillator



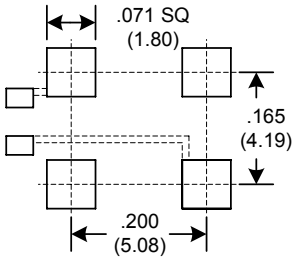
Designed to meet today's requirements for economical 5V applications. Available on 16mm tape and reel in quantities of 1K.

Frequency Range:	1.544MHz to 106.25MHz
Frequency Stability:	±25ppm to ±100ppm
Temperature Range:	
Operating:	0°C to 70°C
(Option M)	-20°C to 70°C
(Option X)	-40°C to 85°C
Storage:	-55°C to 120°C
Input Voltage:	5V ± 0.5V
Input Current:	45mA Max
Output:	HCMOS/TTL
Symmetry:	40/60% Max @ 50% Vdd
(Option Y)	45/55% Max @ 50% Vdd
Rise/Fall Time:	10ns Max @ 20/% to 80% Vdd
Logic:	"0" = 10% Vdd Max
	"1" = 90% Vdd Min
Load:	15pF/10 TTL Max
Aging:	<3ppm 1st/yr, 1ppm every year thereafter

Dimensions inches (mm)
All dimensions are Max unless otherwise specified.

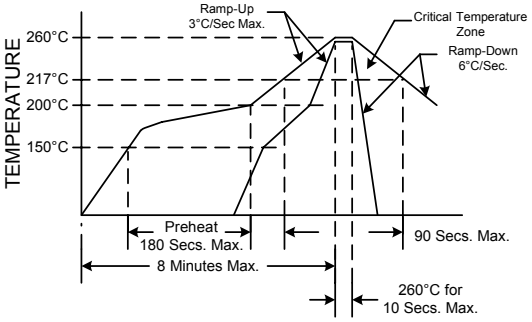


SUGGESTED PAD LAYOUT

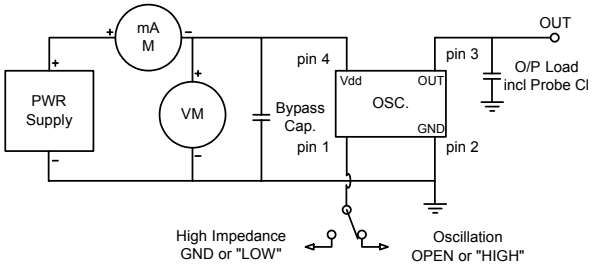


0.01uF Bypass Capacitor Recommended

RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable.



Crystek Part Number Guide

CSO-016T X Y- 25 - 49.152
#1 #2 #3 #4 #5 #6

#1 Crystek Clock Osc.
#2 Model
#3 Temp. Range: Blank= 0/70°C, M= -20/70°C, X= -40/85°C
#4 Symmetry: Blank=(40/60), Y=(45/55)
#5 Stability: (see Table 1)
#6 Frequency in MHz: 3 or 6 decimal places

Stability Indicator	
Blank (std)	± 100ppm
25	± 25ppm
50	± 50ppm

Table 1

Example:
CSO-016TXY-25-25.000 = 5V Tristate, -40/85°C, 45/55, 25ppm, 25.000 MHz
CSO-016T-50-19.660800 = 5V Tristate, 0/70, 40/60, 50ppm, 19.660800 MHz

Tri-State Function	
Function pin 1	Output pin
Open	Active
"1" level 2.4V Min	Active
"0" level 0.4V Max	High Z

Specifications subject to change without notice. TD-021002 Rev. E

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